

## Name: M. Umer farooq | Quiz Subject: Biology

## Time Remaining: 45/45 (Minutes)

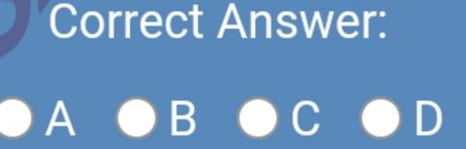
Q.1 Test 1 Variety of Life Biology Unit Wise

The protein coat of viruses is called \_\_\_\_\_\_ and it encloses the viral \_\_\_\_\_:

(a) Envelope, genome
(b) Capsid, genome
(c) Capsid, capsomeres
(d) Envelope, nucleocapsid

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Q.2 Test 1 Variety of Life

**Biology Unit Wise** 

HIV infects \_\_\_\_\_ and the defects in these cells lead to failure in \_\_\_\_ system:

- (a) Helper T-lymphocytes, immune
- (b) Killer T-lymphocytes, immune
- (c) Helper T-lymphocytes, circulatory
- (d) Neurons, CNS

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Q.3 Test 1 Variety of Life Biology Unit Wise

HIV is:

(a) RNA enveloped (b) RNA non-enveloped (c) DNA enveloped (d) DNA non-enveloped

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Q.4

**Test 1 Variety of Life** 

**Biology Unit Wise** 

The complete, mature and infectious particle is known as:

(a) Viriod

(b) Virus

(c) Virion

(d) None of these

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В

Q.5

**Test 1 Variety of Life** 

**Biology Unit Wise** 

### Animal and plant viruses may be:

- (a) Tadpole shape
- (b) Cubical or helical
- (c) Spherical
- (d) Polyhedron or helical

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Q.6

**Test 1 Variety of Life** 

**Biology Unit Wise** 

#### Virus classification is based on:

- (a) Host organisms
- (b) Other structural characters such as morphology and type of genome
- (c) Mode of action in the host
- (d) All of these

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Q.7

**Test 1 Variety of Life** 

**Biology Unit Wise** 

The internationally agreed system of virus classification is based on

- (a) The structure and composition of the virus particle (virion)
- (b) Structural characters such as morphology and type of genome
- (c) Mode of action in the host
- (d) All of these

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В

Q.8

**Test 1 Variety of Life** 

**Biology Unit Wise** 

### Bacteriophage attacks bacteria:

- (a) It is a DNA virus with a rod-shaped tail
- (b) It is an RNA virus with a rod-shaped tail
- (c) It is a DNA virus with a polyhedral tail
- (d) It is an RNA virus with a polyhedral tail

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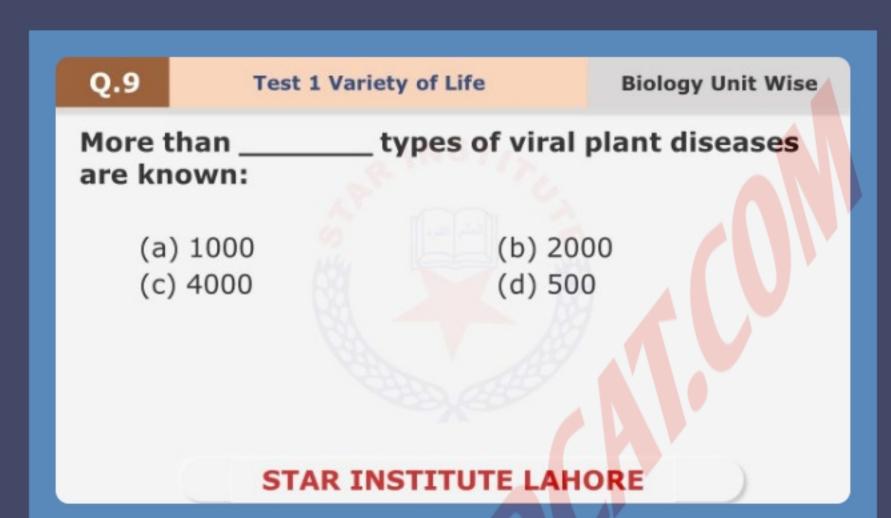




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Q.10

**Test 1 Variety of Life** 

**Biology Unit Wise** 

Most \_\_\_\_\_ discovered till to date e.g., tobacco mosaic virus (TMV), have an RNA genome:

- (a) Animal viruses (b) Bacteriophages
- (c) Plant viruses
- (d) Oncoviruses

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Q.11 Test 1 Variety of Life Biology Unit Wise

The capsid of TMV is:

(a) Spherical (b) Tadpole shaped (c) Icosahedral (d) Rod shaped

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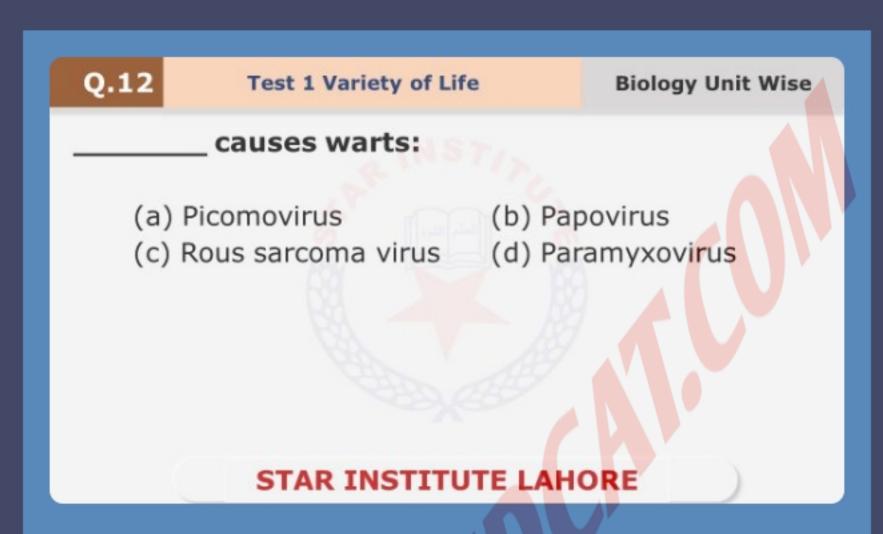
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Q.13 Test 1 Variety of Life Biology Unit Wise

\_\_\_\_\_causes polio:

(a) Picomovirus
(b) Papovirus
(c) Rous sarcoma virus
(d) Paramyxovirus

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Q.14

**Test 1 Variety of Life** 

**Biology Unit Wise** 

Viruses having a polyhedral capsid with a glycoprotein spike at each vertex:

- (a) Influenza viruses (b) Bacteriophage
- (c) Tobacco mosaic virus (d) Adenoviruses

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Q.15

**Test 1 Variety of Life** 

**Biology Unit Wise** 

#### Pox virus is:

- (a) Double-stranded (dsDNA)
- (b) Single-stranded DNA (ssDNA)
- (c) Double-stranded RNA (dsRNA)
- (d) Single-stranded RNA (ssRNA)

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Q.16

**Test 1 Variety of Life** 

**Biology Unit Wise** 

#### The retrovirus that leads to AIDS

- (a) Has no envelope
- (b) Contains RNA in its genome
- (c) Uses reverse transcriptase to convert DNA to RNA
- (d) Multiplies only within the brain cells of the body

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Q.17

**Test 1 Variety of Life** 

**Biology Unit Wise** 

### A virus is made up of:

- (a) Protein coat and nucleic acid
- (b) Protein coat and mitochondria
- (c) Nucleic acid and cell membrane
- (d) Nucleic acid, cell wall and cell membrane

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Q.18

**Test 1 Variety of Life** 

**Biology Unit Wise** 

The protein coat of viruses that enclose the genetic material is called:

(a) Virion

- (b) Capsid
- (c) Peplomers
- (d) Capsomers

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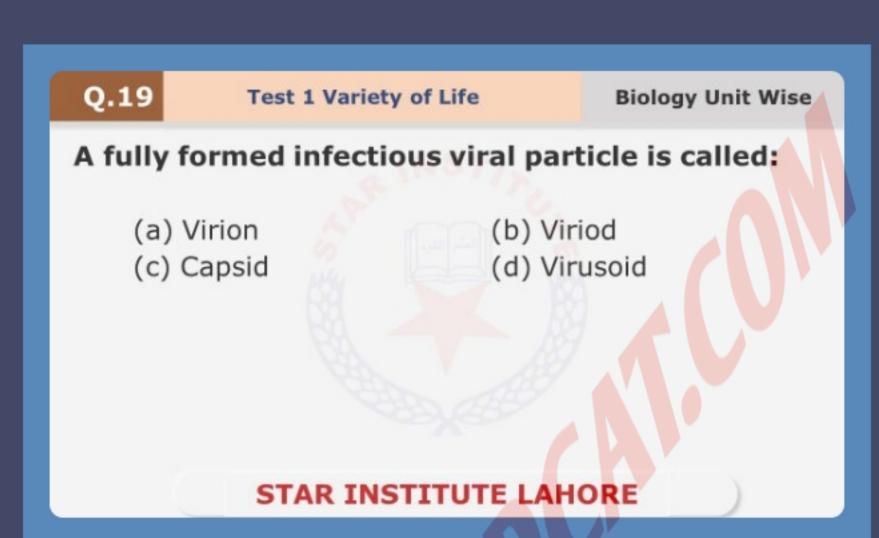
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Q.20

**Test 1 Variety of Life** 

**Biology Unit Wise** 

### Choose the wrong statement:

- (a) Capsomere is a subunit of the capsid
- (b) Capsomeres self-assemble to form the capsid
- (c) Viruses can multiply only in living cells of animals, plants, or bacteria
- (d) All the statements are true

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Q.21

**Test 1 Variety of Life** 

**Biology Unit Wise** 

Viruses are considered nonliving because they:

- (a) Do not mutate
- (b) Do not locomote
- (c) Cannot reproduce independently
- (d) Have nucleic acid

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Q.22

**Test 1 Variety of Life** 

**Biology Unit Wise** 

#### Which of these are found in all viruses?

- (a) Envelope, nucleic acid, capsid
- (b) DNA, RNA and proteins
- (c) Proteins and nucleic acid
- (d) Protein, carbohydrate, lipids

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Correct Answer:

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Q.23

**Test 1 Variety of Life** 

**Biology Unit Wise** 

#### Which of these is a true statement?

- (a) Viruses carry with them their own ribosome for protein formation
- (b) New viral ribosomes form after viral DNA enters the cell
- (c) Viruses use the host ribosomes for their own needs
- (d) Viruses do not need ribosomes for protein formation

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Q.24

**Test 1 Variety of Life** 

**Biology Unit Wise** 

Which part of an animal virus is not reproduced in multiple copies?

- (a) Envelope
- (b) Protein

(c) Capsid

(d) Ribosome

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Correct Answer:

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Q.25

**Test 1 Variety of Life** 

**Biology Unit Wise** 

RNA retroviruses have a special enzyme that:

- (a) Disintegrates host DNA
- (b) Polymerizes host DNA
- (c) Transcribes viral RNA to DNA
- (d) Translates host DNA

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Q.26

**Test 1 Variety of Life** 

**Biology Unit Wise** 

Which of the following illness is caused by a retrovirus?

(a) Typhoid

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(c) AIDS

- (b) Malaria
- (d) Sleeping sickness

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Q.27

**Test 1 Variety of Life** 

**Biology Unit Wise** 

### The HIV primarily infects:

- (a) Plasma cells
- (b) Helper T-cells
- (c) All white blood cells (d) Red blood cells

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Q.28

**Test 1 Variety of Life** 

**Biology Unit Wise** 

### A virus is made up of:

- (a) Protein coat and mitochondria
- (b) Protein coat and nucleic acid
- (c) Nucleic acid and cell membrane
- (d) Nucleic acid, cell wall and cell membrane

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Q.29

**Test 1 Variety of Life** 

**Biology Unit Wise** 

The protein coat of viruses that enclose the genetic material is called:

(a) Virion

- (b) Peplomers
- (c) Capsomeres

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(d) Capsid

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Q.30

**Test 1 Variety of Life** 

**Biology Unit Wise** 

#### A virion is:

- (a) The viral capsid
- (b) An intact infectious viral particle
- (c) Lysogenic phage
- (d) Lytic phage

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Q.31

**Test 1 Variety of Life** 

**Biology Unit Wise** 

HIV is a retrovirus that infects and colonizes cells in the:

- (a) Immune system
- (b) Immune system and the central nervous system
- (c) Endocrine system
- (d) Immune system and endocrine system

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Q.32

**Test 1 Variety of Life** 

**Biology Unit Wise** 

Which of the following is a symptom of AIDS?

- (a) Fever
- (b) Swollen lymph nodes
- (c) Tiredness

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(d) All of the above

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Q.33

**Test 1 Variety of Life** 

**Biology Unit Wise** 

### HIV can also spread through

- (a) Sharing water
- (b) Breathing in infected droplets
- (c) Sharing needles
- (d) Hugging

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Q.34

**Test 1 Variety of Life** 

**Biology Unit Wise** 

How many stages of HIV infection exist?

(a) 3

(b) 2

(c) 1

(d) No stages

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Q.35

**Test 1 Variety of Life** 

**Biology Unit Wise** 

In individuals with HIV, opportunistic infections are:

- (a) More frequent
- (b) Less frequent
- (c) Non-existent

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(d) None of the above

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Q.36

**Test 1 Variety of Life** 

**Biology Unit Wise** 

### Where did HIV originate?

- (a) A chimpanzee
- (b) Mad cow disease
- (c) A strain of the hepatitis virus
- (d) All of the above

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Q.37

**Test 1 Variety of Life** 

**Biology Unit Wise** 

## What is AIDS?

- (a) A fungal infection
- (b) A rare blood cancer caused by HIV
- (c) A group of diseases caused by HIV
- (d) The final stage of HIV

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Q.38

**Test 1 Variety of Life** 

**Biology Unit Wise** 

## How does HIV become AIDS?

- (a) HIV attacks the T cells
- (b) HIV makes multiple copies of itself.
- (c) HIV destroys cells in the body
- (d) All of the above

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Correct Answer:



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Q.39

**Test 1 Variety of Life** 

**Biology Unit Wise** 

Which is not considered a common method of transmission for HIV?

(a) Blood

- (b) Genital secretions
- (c) Breast milk
- (d) Urine

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Q.40

**Test 1 Variety of Life** 

**Biology Unit Wise** 

In asymptomatic carriers of AIDS, the symptoms disappear and there are no other symptoms for:

- (a) Three months or longer
- (b) Six months or longer
- (c) Nine months or longer
- (d) Twelve months or longer

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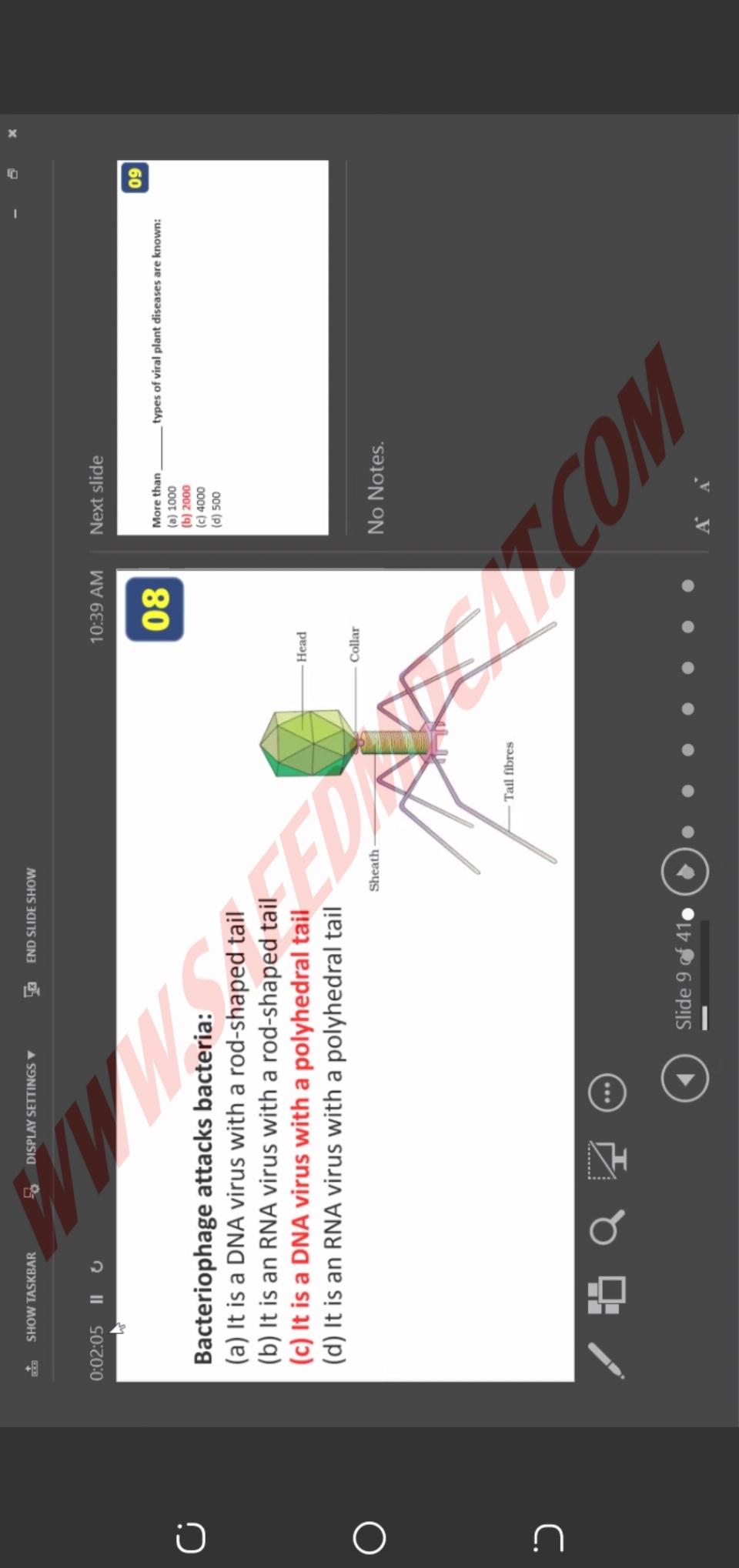




















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